


Curriculum Vitae

	<p>Dr. Vikash Singh, Assistant Professor, Department of Soil & Water Conservation Engineering, College of Technology, (SVPUAT) Sardar Vallabhbhai Patel University of Agriculture & Technology, Modipuram, Meerut, U.P., India</p> <p>Contact Details: <i>Mobile No.: 8127739143, e-mail: vksingh.swc.bhu@gmail.com</i></p>
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1. Academic Qualifications:

Degree	Subject (Major)	University / Board	Percentage	Passing Year
NET	Land & Water Management Engg.	ICAR-ASRB	50.22 %	2018
NET	Land & Water Management Engg.	ICAR-ASRB	62.22 %	2021
NET	Land & Water Management Engg.	ICAR-ASRB	56.89 %	2023
Ph.D	(S.W.C.E) Agricultural Engineering	Banaras Hindu University, Varanasi, U.P.	80.04 %	2021
M.Tech	(S.W.C.E) Agricultural Engineering	Banaras Hindu University Varanasi, U.P.	83.60%	2018
B.Tech	Agricultural Engineering	M.G.C.G.V, Chitrakoot, Satna, M.P.	74.83%	2016
Class XII	P.C.M	B.S.E.B, Bihar Board	62.60%	2011
Class X	Mathematics, Science	C.B.S.E Board	75.60%	2009
Diploma (ADCA)	Computer Application	Shakshartha, Mission, Patna, Bihar	80.0%	2021

2. Experiences in the Concerned Field:

Name of Organization	Designation	Duration	Work Profile
Gopal Narayan Singh, University Sasaram, Bihar	Assistant Professor	30.04.2022 to 22.10.2024	Teaching & Research
Sandip University Madhubani , Bihar	Assistant Professor	13.12.2021 to 13.04.2022	Teaching & Research
Institute of Social Devl., Chitrakoot, U.P	Technical Staff	01.05.2014 to 30.04.2015	Technical Staff in I.N.R.M Project

3. Patents Published:	
1.	Design Patent: Title of Invention: Novel shape and configuration of the “DIGITAL SPRINKLER IRRIGATION”.

4. Major Internship/Training/Workshops Attended:	
I.I.R.S, I.S.R.O, G.O.I, Dehradun, U.K.	Completed Training-Cum PhD Research Work at Water Resource Department. Time duration: 06 Months.
I.I.R.S, I.S.R.O, Dehradun, U.K.	Completed training-cum M.Tech Research Work on the topic entitled “ Eco - Environmental Vulnerability Evaluation of Maharashtra Region Using Remote Sensing And GIS ”. Time duration: 06 Months
NIH Roorkee, U. K	Trained on “ Water Conservation Practices Through Adaptation of Appropriate Management and Technological Interventions & practitioner’s Approach ” at IGFRI Jhansi. Time Duration: 05 Days
Soil Conservation Department D.V.C, Hazaribagh, Jharkhand	Trained on “ Integrated Watershed Management ” Time duration: 1 Month
I.I.R.S, ISRO, G.O.I.	Completed course on “ Application of Remote Sensing and GIS For Natural Resources ” Time Duration: 2 Months
NRFMTTI, Hisar, Haryana	Trained on “ Agriculture Machinery ”. Time duration: 1 month
B.H.U Varanasi U.P	Workshop on Basics of Remote Sensing & G.I.S. Time duration: 05 Days

5. Research Project Works Accomplished:	
I.I.R.S, ISRO, Dehradun, U.K.	Project on “ Spatiotemporal Eco-environmental Vulnerability Assessment of Agro-Climatic Zone-III of Bihar Region ”.
I.I.R.S, ISRO, Dehradun, U.K.	Project on “ Environmental Vulnerability Evaluation of Maharashtra Region Using Remote Sensing And GIS ”.
DVC Hazaribagh, J.H	WPR on Gonda Catchment Area Treatment Plan By Surveying & Leveling Method.
DVC Hazaribagh, J.H	Project on “ Assessment of Silt Inflow Into The Gonda Dam Reservoir, by Surveying & Leveling Method.
M.G.C.G.V Chitrakoot, M.P	Project on “ Morphometric Analysis of Piprawati River Milli-Watershed “of Chitrakoot District,U.P, Using Remote Sensing & GIS Techniques.

6. Life Membership of Professional Societies:	
1.	ISAE: Indian Society of Agricultural Engineers, New Delhi
2.	IASWC: Indian Association of Soil and Water Conservationists, Dehradun, Uttarakhand
3.	JISRS: Journal of Indian society of Remote Sensing, IIRS, ISRO, Dehradun, Uttarakhand
4.	ATDS: Agricultural Technology and Development Society, Ghaziabad Uttar-Pradesh

7. Research Papers Publication Details		NAAS Rating (2023)	Impact Factor
i	Singh, V., Nema, A. K. and Kar, S. (2022). Spatiotemporal Evaluation Of Drought Characteristics in South-Bihar Region Using Standardized Precipitation Index (SPI). <i>Arabian journal of Geosciences. SPRINGER</i> .15:1231.	6.00	1.8
ii	Singh, V., Kar, S., & Nema, A. K. (2021). Drought Severity Assessment In South Bihar Agro-Climatic Zone. <i>MAUSAM, IMD</i> , 72(4), 865–878	6.91	1.4
iii	Singh ,V., Nema, A.K., Chouksey, A., Kar S.K. and Das, S (2021). Spatiotemporal Soil Erosion Assessment Using RUSLE Model on Geospatial Platform For Maharashtra State. <i>Indian Journal of Soil Conservation</i> , ICAR- IISWC, Dehradun, U.K, Vol. 49, No. 3, pp 172-180.	5.28	NA
iv	Singh, V., Verma, R., Kumar, M. & Kumari, A. (2019) Water Requirement of Crops Using CROPWAT Model- A Case Study of Buxar District In Bihar. <i>Current Advances in Agricultural Sciences</i> 11(1): 47-51.	5.12	NA
v	Singh, V., Nema A.K. and Kumar, K.(2021). Drought Monitoring in South Bihar Region Using Standardized Precipitation Index (SPI). <i>Current Advances in Agricultural Sciences</i> .13(2):101-108.	5.12	NA
vi	Singh , V., Nema , A. K., Chouksey , A., & Suryawanshi , A. (2024). Assessment of Eco-Environmental Vulnerability Using Remote Sensing and GIS Tools in Maharashtra Region, India. <i>International Journal of Environment and Climate Change</i> , 14(4), 119–129. https://doi.org/10.9734/ijec/2024/v14i44103 .	5.13	NA

8. Major Abstracts Published:				
1.	Soil Erosion Spatial Temporal Mapping Using RUSLE Model on Geospatial Platforms 2000-2011	Vikash Singh, Anupam Kumar Nema & Arpit Chouksey	SOUVENIR of 53rd Annual Convention Of ISAE-2019 and International Symposium on Engineering Technologies For Precision and Climate Smart Agriculture	Organized By ISAE New Delhi and Institute of Agricultural Sciences, BHU Varanasi
2.	Eco-Environmental Vulnerability Evaluation of Maharashtra State On Geospatial Platform	Vikash Singh, Arpit Chouksey & Anupam Kumar Nema	VIIth International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences	Organized by Astha Foundation, Meerut (U.P.) India and Birsa Agricultural University Ranchi Jharkhand
9. Major Popular Articles Published				
1	Importance of Contract Farming In 21st Century India	Vikash Singh, A.K Nema & Ramesh Verma	PART-10 JANUARY , 2022 ISSN: 2582-5976	Madhya Bharat Krishak Bharti, Gwalior, U.P
2	Climate Resilient Agriculture: An Approach to Sustainable	Swati Kumari, Vikash Singh, Rashmi Kumari	Volume-1, Issue-4, March, 2022 E-ISSN: 2583-1755	The Agriculture Magazine Published by: The Agriculture

	Development			Publication
3	Indian Management Policies for Drought Affected Areas	Vikash Singh, A.K Nema & V.K Gautam	PAGE- 4,14 June, 2021, www.krishakjagat.org	Krishak Jagat Bhopal, MP
4	Makhana Production is an Improved Resource for Livelihood in Flood Affected Areas of North Bihar.	Vikash Singh	SECTION-02 PART-01 PAGE 53-55 JUNE 2022 E-ISSN: 2582-9769	Krishi Kumbh

10. Book Published:		
1	Editor: Research Methodology in Soil-Water, Agriculture and Climate Change	Dr. Vikash Singh, Dr. Bhaskar Pratap Singh, Swati Kumari & Dr. Shashank Shekher Singh ISBN: 978-93-5788-039-16
11. Major Book Chapters Published:		
1	Drought Concept & Methods to Assess its Vulnerability	(Authors: Vikash Singh, Swati Kumari and Vijeta Singh) ISBN: 978-93-5788-039-10
2	CROPWAT : A Model to Estimate Crop Water Requirement	(Authors: Vikash Singh, Shivam Kumar Dwivedi, and Niraj Kumar) ISBN: 978-93-5788-039-15
3	Drought Monitoring Using Remote Sensing & G.I.S Tools	(Authors: Vikash Singh and Shashank Shekher Singh) ISBN: 978-93-5788-039-15

12. Delivered Radio Talks		
1	Laser Land Leveller and its Importance in Agriculture	Date of Broadcasting: 16.12.2022
2	Nutrient Management using Drip Fertigation	Date of Broadcasting: 16.12.2022
3	Farm Machineries and their Application	Date of broadcasting : 05. 06. 2023
4	Maintenance of Farm Machineries	Date of broadcasting : 05. 06. 2023

13. Additional Achievements:	
1	Best PhD Thesis Award in the VII International Conference in Hybrid Mode on Global Research Initiatives for Sustainable Agriculture & Allied Sciences GRISAAS-2022, held at Birsa Agriculture University , Ranchi by <i>Society for Scientific Development in Agriculture & Technology</i>
2	Young Researcher Award in the 5th International Conference (Advances in Smart Agriculture and Biodiversity Conservation for Sustainable Development (SABCD-2022), Jaipur National University by <i>Agricultural Technology Development Society</i>
3	Young Scientist Award in the 6th International Conference Strategies and Challenges in Agriculture & Life Science for Food Security & Sustainable Environment (SCALFE-2023), Himachal Pradesh University , Shoolini H.P. by <i>Agricultural Technology Development Society</i>
4	Young Scientist in Agricultural Engineering in International Seminar on Improving Farm Productivity & Farm Economic in Changing Climate: Challenges & Prospects , organized by Udayaniki Krishi Anushandhan Samiti Lucknow U.P, India-September, 2022.

14. Major Research Skills Developed:	
1	Remote sensing and GIS software : for mapping, data interpolation, data spatial analysis, Land Use and Land Cover mapping etc.
2	Surveying and Levelling based field research work
3	Trend analysis; Mann Kendall, Modified Mann Kendall Test.
4	Ground Water Potential Zoning
5	Eco-environmental Vulnerability Analysis
6	Soil erosion risk assessment and Mapping
7	Drought severity assessment: Rainfall Departure, Rainfall Probability, NDVI, SPI, EDI, SPEI and other indices.
8	Assessment of Morphometric Characteristics of Watershed

References:

- **Central University:**

1. **Dr. Anupam Kumar Nema**, DSW (B.H.U) & Professor
Department of Farm Engineering, Institute of Agricultural Sciences,
Banaras Hindu University, Varanasi-221005, Uttar-Pradesh, India.
Email- anupamnema@gmail.com

Contact: 8765111934

2. **Dr. Virendra Kumar Chandola**, Professor,
Department of Farm Engineering, Institute of Agricultural Sciences,
Banaras Hindu University, Varanasi-221005, Uttar-Pradesh, India.
Email- vkc_vns@yahoo.co.in

Contact: 9415812838

- **Central Research Institutes:**

3. Dr. Arpit Chouksey, Scientist/Engineer – SE,
Water Resources Division, **Indian Institute of Remote Sensing, ISRO**,
Govt. of India, 4, Kalidas Road, Dehradun- 248001, Uttarakhand, India.

Email- arpit.iirs@gmail.com

Contact: 90128184893.

4. Dr. Saswat Kumar Kar, Agriculture Research Scientist,
Indian Council of Agricultural Research | ICAR-IISWC, Central Soil and Water Conservation
Research and Training Institute, Kaulagarh, Dehradun-248003, Uttarakhand, India

Email- saswatkumarkar@gmail.com

Contact: 9580736484

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